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DB=PGPB,USPT; PLUR=YES; OP=OR

<u>L6</u>	L5 and syringe	1	<u>L6</u>
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<u>L5</u>	6727224.pn.	1	<u>L5</u>
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DB=PGPB; PLUR=YES; OP=OR

<u>L4</u>	L3 and injection	0	<u>L4</u>
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<u>L3</u>	6727224.pn.	0	<u>L3</u>
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<u>L2</u>	L1 and injection	1	<u>L2</u>
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<u>L1</u>	20040192605	1	<u>L1</u>
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=> s articular cartilage regeneration
L1 118 ARTICULAR CARTILAGE REGENERATION

=> s l1 and osteochondral graft
L2 5 L1 AND OSTEOCHONDRAL GRAFT

=> d l2 ti abs ibib tot

L2 ANSWER 1 OF 5 USPATFULL on STN

TI Resorbable polymeric device for localized drug delivery
AB An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. Another embodiment is arranged for the local delivery of therapeutic agent. A preferred embodiment is a porous resorbable implant, wherein the therapy delivery may be localized in nature, rather than systemic, such that higher doses at the target site may be allowed than would be tolerable by the body systemically.

ACCESSION NUMBER: 2005:203692 USPATFULL
TITLE: Resorbable polymeric device for localized drug delivery
INVENTOR(S): Hoganson, David M., St. Louis, MO, UNITED STATES
Bradica, Gino, Ewing, NJ, UNITED STATES
Goldman, Scott M., Downingtown, PA, UNITED STATES
Brekke, John H., Duluth, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005177118	A1	20050811
APPLICATION INFO.:	US 2005-56879	A1	20050212 (11)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2004-830267, filed on 21 Apr 2004, PENDING Continuation of Ser. No. US		

2002-199961, filed on 19 Jul 2002, ABANDONED
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Jeffrey C. Kelly, Esq., Kensey Nash Corporation, 55
East Uwchlan Avenue, Exton, PA, 19341, US
NUMBER OF CLAIMS: 43
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Page(s)
LINE COUNT: 2221

L2 ANSWER 2 OF 5 USPATFULL on STN

TI Device for regeneration of articular cartilage and other tissue
AB An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between the regions, of this embodiment. In one embodiment, the polyelectrolytic complex transforms to hydrogel, following the implant procedure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:87019 USPATFULL
TITLE: Device for regeneration of articular cartilage and other tissue
INVENTOR(S): Brekke, John H., Duluth, MN, UNITED STATES
Bradica, Gino, Claremont, NH, UNITED STATES
Goldman, Scott M., Paoli, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005074481	A1	20050407
APPLICATION INFO.:	US 2004-936020	A1	20040908 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2004-830267, filed on 21 Apr 2004, PENDING Continuation of Ser. No. US 2002-199961, filed on 19 Jul 2002, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Jeffrey C. Kelly, Esq., Kensey Nash Corporation, 55 East Uwchlan Avenue, Exton, PA, 19341		
NUMBER OF CLAIMS:	24		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1288		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 3 OF 5 USPATFULL on STN

TI Device for regeneration of articular cartilage and other tissue
AB An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between the regions, of this embodiment. In one embodiment, the polyelectrolytic complex transforms to hydrogel, following the implant procedure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:253786 USPATFULL
TITLE: Device for regeneration of articular cartilage and

INVENTOR(S): other tissue
Brekke, John H., Duluth, MN, UNITED STATES
Bradica, Gino, Claremont, NH, UNITED STATES
Goldman, Scott M., Paoli, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004197311	A1	20041007
APPLICATION INFO.:	US 2004-830267	A1	20040421 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2002-199961, filed on 19 Jul 2002, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Jeffrey C. Kelly, Esq., Kensey Nash Corporation, 55 East Uwchlan Avenue, Exton, PA, 19341		
NUMBER OF CLAIMS:	30		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1322		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 4 OF 5 USPATFULL on STN

TI Device for regeneration of articular cartilage and other tissue
AB An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between the regions, of this embodiment. In one embodiment, the polyelectrolytic complex transforms to hydrogel, following the implant procedure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:65819 USPATFULL
TITLE: Device for regeneration of articular cartilage and other tissue
INVENTOR(S): Brekke, John H., Duluth, MN, UNITED STATES
Bradica, Gino, Claremont, NH, UNITED STATES
Goldman, Scott M., Paoli, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003045943	A1	20030306
APPLICATION INFO.:	US 2002-199961	A1	20020719 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-206604, filed on 7 Dec 1998, GRANTED, Pat. No. US 6264701 Division of Ser. No. US 1994-242557, filed on 13 May 1994, GRANTED, Pat. No. US 5981825		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Alan D. Kamrath, Kensey Nash Corporation, 55 E. Uwchlan Avenue, Exton, PA, 19341		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1263		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 5 OF 5 USPATFULL on STN

TI Device for regeneration of articular cartilage and other tissue
AB An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a

subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between said regions, of this embodiment. In one embodiment, the polyelectrolytic complex transforms to hydrogel, following the implant procedure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:55324 USPATFULL
TITLE: Device for regeneration of articular cartilage and other tissue
INVENTOR(S): Brekke, John H., Duluth, MN, UNITED STATES
Goldman, Scott M., Paoli, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002032488	A1	20020314
APPLICATION INFO.:	US 2001-909027	A1	20010719 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-206604, filed on 7 Dec 1998, GRANTED, Pat. No. US 6264701 Division of Ser. No. US 1994-242557, filed on 13 May 1994, GRANTED, Pat. No. US 5981825		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Alan D. Kamrath, Kensey Nash Corporation, 55 E. Uwchlan Avenue, Exton, PA, 19341		
NUMBER OF CLAIMS:	56		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1349		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS, BIOSIS, BIOTECHDS' ENTERED AT 14:16:36 ON 12 NOV 2005

L1 118 S ARTICULAR CARTILAGE REGENERATION
L2 5 S L1 AND OSTEOCHONDRAL GRAFT

=> s l1 and allograft
L3 17 L1 AND ALLOGRAFT

=> d l3 ti abs ibib tot

L3 ANSWER 1 OF 17 USPATFULL on STN
TI Fiber-reinforced, porous, biodegradable implant device
AB A fiber-reinforced, polymeric implant material useful for tissue engineering, and method of making same are provided. The fibers are preferably aligned predominantly parallel to each other, but may also be aligned in a single plane. The implant material comprises a polymeric matrix, preferably a biodegradable matrix, having fibers substantially uniformly distributed therein. Inorganic particles may also be included in the implant material. In preferred embodiments, porous tissue scaffolds are provided which facilitate regeneration of load-bearing tissues such as articular cartilage and bone. Non-porous fiber-reinforced implant materials are also provided herein useful as permanent implants for load-bearing sites.

ACCESSION NUMBER: 2005:275715 USPATFULL
TITLE: Fiber-reinforced, porous, biodegradable implant device

INVENTOR(S): Slivka, Michael A., Taunton, MA, UNITED STATES
 Niederauer, Gabriele G., San Antonio, TX, UNITED STATES
 Kieswetter, Kristine, San Antonio, TX, UNITED STATES
 Leatherbury, Neil C., San Antonio, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005240281	A1	20051027
APPLICATION INFO.:	US 2004-931474	A1	20040831 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2002-288400, filed on 4 Nov 2002, GRANTED, Pat. No. US 6783712 Division of Ser. No. US 1999-426686, filed on 25 Oct 1999, GRANTED, Pat. No. US 6511511 Continuation of Ser. No. WO 1998-US11007, filed on 29 May 1998, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-48320P	19970530 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	GREENLEE, WINNER AND SULLIVAN, P.C., Suite 200, 4875 Pearl East Circle, Boulder, CO, 80301, US	
NUMBER OF CLAIMS:	15	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	10 Drawing Page(s)	
LINE COUNT:	909	

L3 ANSWER 2 OF 17 USPATFULL on STN

TI Resorbable polymeric device for localized drug delivery

AB An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. Another embodiment is arranged for the local delivery of therapeutic agent. A preferred embodiment is a porous resorbable implant, wherein the therapy delivery may be localized in nature, rather than systemic, such that higher doses at the target site may be allowed than would be tolerable by the body systemically.

ACCESSION NUMBER: 2005:203692 USPATFULL

TITLE: Resorbable polymeric device for localized drug delivery

INVENTOR(S): Hoganson, David M., St. Louis, MO, UNITED STATES
 Bradica, Gino, Ewing, NJ, UNITED STATES
 Goldman, Scott M., Downingtown, PA, UNITED STATES
 Brekke, John H., Duluth, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005177118	A1	20050811
APPLICATION INFO.:	US 2005-56879	A1	20050212 (11)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2004-830267, filed on 21 Apr 2004, PENDING Continuation of Ser. No. US 2002-199961, filed on 19 Jul 2002, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Jeffrey C. Kelly, Esq., Kensey Nash Corporation, 55 East Uwchlan Avenue, Exton, PA, 19341, US		
NUMBER OF CLAIMS:	43		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Page(s)		

LINE COUNT: 2221

L3 ANSWER 3 OF 17 USPATFULL on STN

TI Methods and devices for tissue repair

AB Methods for treating diseased or damaged tissue in a subject are disclosed, involving administering to said subject at a site wherein diseased or damaged tissue occurs, cells of a type(s) normally found in healthy tissue corresponding to the diseased or damaged tissue, and/or suitable progenitor cells thereof, in association with bioresorbable beads or particles and optionally a gel and/or gel-forming substance. Where the cells and/or suitable progenitor cells thereof are chondrocytes, embryonic stem cells and/or bone marrow stromal cells, the methods of the invention are suitable for treating, for example, articular cartilage degeneration associated with primary osteoarthritis. Also disclosed is a device having tissue-like characteristics for treating diseased or damaged tissue in a subject, wherein the device comprises cells of a type(s) normally found in healthy tissue corresponding to the diseased or damaged tissue, and/or suitable progenitor cells thereof, in association with bioresorbable beads or particles and optionally a gel and/or gel-forming substance.

ACCESSION NUMBER: 2005:104645 USPATFULL

TITLE: Methods and devices for tissue repair

INVENTOR(S): Werkmeister, Jerome Anthony, Camberwell, AUSTRALIA
Tsai, Wei-Bor, Taipei, AUSTRALIA
Ramshaw, John Alan, Victoria, AUSTRALIA
Thissen, Helmut Werner, Wheelers Hill, AUSTRALIA
Chang, Ken-Yuan, Hsinchu, AUSTRALIA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005089578	A1	20050428
APPLICATION INFO.:	US 2003-470946	A1	20020205 (10)
	WO 2002-AU106		20020205

	NUMBER	DATE
PRIORITY INFORMATION:	AU 2003-2896	20010205
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	McDermott Will & Emery, 600 13th Street NW, Washington, DC, 20005-3096, US	
NUMBER OF CLAIMS:	135	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Page(s)	
LINE COUNT:	1577	

L3 ANSWER 4 OF 17 USPATFULL on STN

TI Manufacture of autogenous replacement body parts

AB Disclosed are matrix materials, methods, and devices for manufacture in vivo of autogenous replacement body parts comprising plural distinct tissues. In one embodiment, the replacement body part is a skeletal joint and the new plural distinct tissues include bone and articular cartilage.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:104611 USPATFULL

TITLE: Manufacture of autogenous replacement body parts

INVENTOR(S): Khouri, Roger K., St. Louis, MO, UNITED STATES
Sampath, Kuber T., Medway, MA, UNITED STATES
Rueger, David C., Hopkinton, MA, UNITED STATES

NUMBER	KIND	DATE
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PATENT INFORMATION: US 2005089544 A1 20050428
 APPLICATION INFO.: US 2004-995979 A1 20041123 (10)
 RELATED APPLN. INFO.: Continuation of Ser. No. US 2002-83825, filed on 27 Feb 2002, ABANDONED Continuation of Ser. No. US 2000-547601, filed on 13 Apr 2000, ABANDONED Continuation of Ser. No. US 1995-459129, filed on 2 Jun 1995, GRANTED, Pat. No. US 6110482 Continuation-in-part of Ser. No. US 1994-253398, filed on 3 Jun 1994, GRANTED, Pat. No. US 5906827
 DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: TESTA, HURWITZ & THIBEAULT, LLP, HIGH STREET TOWER, 125 HIGH STREET, BOSTON, MA, 02110, US
 NUMBER OF CLAIMS: 33
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 3 Drawing Page(s)
 LINE COUNT: 1624
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 17 USPATFULL on STN
 TI Device for regeneration of articular cartilage and other tissue
 AB An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between the regions, of this embodiment. In one embodiment, the polyelectrolytic complex transforms to hydrogel, following the implant procedure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:87019 USPATFULL
 TITLE: Device for regeneration of articular cartilage and other tissue
 INVENTOR(S): Brekke, John H., Duluth, MN, UNITED STATES
 Bradica, Gino, Claremont, NH, UNITED STATES
 Goldman, Scott M., Paoli, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005074481	A1	20050407
APPLICATION INFO.:	US 2004-936020	A1	20040908 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2004-830267, filed on 21 Apr 2004, PENDING Continuation of Ser. No. US 2002-199961, filed on 19 Jul 2002, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Jeffrey C. Kelly, Esq., Kensey Nash Corporation, 55 East Uwchlan Avenue, Exton, PA, 19341		
NUMBER OF CLAIMS:	24		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1288		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 6 OF 17 USPATFULL on STN
 TI Device for regeneration of articular cartilage and other tissue
 AB An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment,

enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between the regions, of this embodiment. In one embodiment, the polyelectrolytic complex transforms to hydrogel, following the implant procedure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:253786 USPATFULL
TITLE: Device for regeneration of articular cartilage and other tissue
INVENTOR(S): Brekke, John H., Duluth, MN, UNITED STATES
Bradica, Gino, Claremont, NH, UNITED STATES
Goldman, Scott M., Paoli, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004197311	A1	20041007
APPLICATION INFO.:	US 2004-830267	A1	20040421 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2002-199961, filed on 19 Jul 2002, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Jeffrey C. Kelly, Esq., Kensey Nash Corporation, 55 East Uwchlan Avenue, Exton, PA, 19341		
NUMBER OF CLAIMS:	30		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1322		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 7 OF 17 USPATFULL on STN

TI Fiber-reinforced, porous, biodegradable implant device
AB A fiber-reinforced, polymeric implant material useful for tissue engineering, and method of making same are provided. The fibers are preferably aligned predominantly parallel to each other, but may also be aligned in a single plane. The implant material comprises a polymeric matrix, preferably a biodegradable matrix, having fibers substantially uniformly distributed therein. In preferred embodiments, porous tissue scaffolds are provided which facilitate regeneration of load-bearing tissues such as articular cartilage and bone. Non-porous fiber-reinforced implant materials are also provided herein useful as permanent implants for load-bearing sites.

ACCESSION NUMBER: 2003:111102 USPATFULL
TITLE: Fiber-reinforced, porous, biodegradable implant device
INVENTOR(S): Slivka, Michael, San Antonio, TX, UNITED STATES
Niederauer, Gabriele G., San Antonio, TX, UNITED STATES
Kieswetter, Kristine, San Antonio, TX, UNITED STATES
Leatherbury, Neil C., San Antonio, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003075822	A1	20030424
	US 6783712	B2	20040831
APPLICATION INFO.:	US 2002-288400	A1	20021104 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-426686, filed on 25 Oct 1999, GRANTED, Pat. No. US 6511511 Continuation of Ser. No. WO 1998-US11007, filed on 29 May 1998, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-48320P	19970530 (60)
DOCUMENT TYPE:	Utility	

FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: GREENLEE WINNER AND SULLIVAN P C, 5370 MANHATTAN
CIRCLE, SUITE 201, BOULDER, CO, 80303
NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Page(s)
LINE COUNT: 771

L3 ANSWER 8 OF 17 USPATFULL on STN
TI Manufacture of autogenous replacement body parts
AB Disclosed are matrix materials, methods, and devices for manufacture in vivo of autogenous replacement body parts comprising plural distinct tissues. In one embodiment, the replacement body part is a skeletal joint and the new plural distinct tissues include bone and articular cartilage.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:92732 USPATFULL
TITLE: Manufacture of autogenous replacement body parts
INVENTOR(S): Khouri, Roger K., St. Louis, MO, UNITED STATES
Sampath, Kuber T., Medway, MA, UNITED STATES
Rueger, David C., Hopkinton, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003064090	A1	20030403
APPLICATION INFO.:	US 2002-83825	A1	20020227 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-547601, filed on 13 Apr 2000, ABANDONED Continuation of Ser. No. US 1995-459129, filed on 2 Jun 1995, GRANTED, Pat. No. US 6110482 Continuation-in-part of Ser. No. US 1994-253398, filed on 3 Jun 1994, GRANTED, Pat. No. US 5906827		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	TESTA, HURWITZ & THIBEAULT, LLP, HIGH STREET TOWER, 125 HIGH STREET, BOSTON, MA, 02110		
NUMBER OF CLAIMS:	33		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Page(s)		
LINE COUNT:	1634		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 9 OF 17 USPATFULL on STN
TI Device for regeneration of articular cartilage and other tissue
AB An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between the regions, of this embodiment. In one embodiment, the polyelectrolytic complex transforms to hydrogel, following the implant procedure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:65819 USPATFULL
TITLE: Device for regeneration of articular cartilage and other tissue
INVENTOR(S): Brekke, John H., Duluth, MN, UNITED STATES
Bradica, Gino, Claremont, NH, UNITED STATES
Goldman, Scott M., Paoli, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003045943	A1	20030306
APPLICATION INFO.:	US 2002-199961	A1	20020719 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-206604, filed on 7 Dec 1998, GRANTED, Pat. No. US 6264701 Division of Ser. No. US 1994-242557, filed on 13 May 1994, GRANTED, Pat. No. US 5981825		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Alan D. Kamrath, Kensey Nash Corporation, 55 E. Uwchlan Avenue, Exton, PA, 19341		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1263		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 10 OF 17 USPATFULL on STN

TI Cartilage repair apparatus and method

AB An orthopaedic device for repairing and regenerating cartilage includes a plug configured to be positioned in a hole formed in the cartilage and an anchor configured to support the plug. One or both of the plug and the anchor may be formed from naturally occurring extracellular matrix such as small intestine submucosa. A method for repairing and regenerating cartilage is also disclosed.

ACCESSION NUMBER: 2003:51842 USPATFULL

TITLE: Cartilage repair apparatus and method

INVENTOR(S): Schwartz, Herbert E., Ft. Wayne, IN, UNITED STATES
Malaviya, Prasanna, Ft. Wayne, IN, UNITED STATES
Pelo, Mark J., Macy, IN, UNITED STATES
Plouhar, Pamela L., South Bend, IN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003036801	A1	20030220
APPLICATION INFO.:	US 2002-195347	A1	20020715 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-305786P	20010716 (60)
	US 2002-389027P	20020614 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BARNES & THORNBURG, 11 SOUTH MERIDIAN, INDIANAPOLIS, IN, 46204	
NUMBER OF CLAIMS:	161	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	6 Drawing Page(s)	
LINE COUNT:	1659	

L3 ANSWER 11 OF 17 USPATFULL on STN

TI Cartilage repair and regeneration device and method

AB A method for the repair of a cartilagenous tissue defect, a cartilage repair device and a method of making a cartilage repair device are disclosed. In the method for the repair of a cartilagenous tissue defect, a device comprising a scaffold, for example an extracellular matrix material, is implanted into the defect, and a biological lubricant is administered to the defect. The device comprises a scaffold, for example a naturally occurring extracellular matrix material, and a biological lubricant.

ACCESSION NUMBER: 2003:45709 USPATFULL
TITLE: Cartilage repair and regeneration device and method
INVENTOR(S): Plouhar, Pamela Lynn, South Bend, IN, UNITED STATES
Malaviya, Prasanna, Ft. Wayne, IN, UNITED STATES
Schwartz, Herbert Eugene, Ft. Wayne, IN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003033022	A1	20030213
APPLICATION INFO.:	US 2002-195606	A1	20020715 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-388724P	20020614 (60)
	US 2001-305786P	20010716 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BARNES & THORNBURG, 11 SOUTH MERIDIAN, INDIANAPOLIS, IN, 46204	
NUMBER OF CLAIMS:	60	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	1074	

L3 ANSWER 12 OF 17 USPATFULL on STN

TI Cartilage repair and regeneration scaffold and method
AB A method for the repair of a cartilaginous tissue defect, a cartilage repair device and a method of making a cartilage repair device are disclosed. In the method for the repair of a cartilaginous tissue defect, a device comprising a synthetic polymer is implanted into the defect, and a biological lubricant is administered to the defect. The device comprises a synthetic polymer and a biological lubricant.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:45708 USPATFULL
TITLE: Cartilage repair and regeneration scaffold and method
INVENTOR(S): Plouhar, Pamela Lynn, South Bend, IN, UNITED STATES
Schwartz, Herbert Eugene, Ft. Wayne, IN, UNITED STATES
Malaviya, Prasanna, Ft. Wayne, IN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003033021	A1	20030213
APPLICATION INFO.:	US 2002-195334	A1	20020715 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-388724P	20020614 (60)
	US 2001-305786P	20010716 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BARNES & THORNBURG, 11 SOUTH MERIDIAN, INDIANAPOLIS, IN, 46204	
NUMBER OF CLAIMS:	51	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	890	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 13 OF 17 USPATFULL on STN

TI Fiber-reinforced, porous, biodegradable implant device
AB A fiber-reinforced, polymeric implant material useful for tissue engineering, and method of making same are provided. The fibers are

preferably aligned predominantly parallel to each other, but may also be aligned in a single plane. The implant material comprises a polymeric matrix, preferably a biodegradable matrix, having fibers substantially uniformly distributed therein. In preferred embodiments, porous tissue scaffolds are provided which facilitate regeneration of load-bearing tissues such as articular cartilage and bone. Non-porous fiber-reinforced implant materials are also provided herein useful as permanent implants for load-bearing sites.

ACCESSION NUMBER: 2003:26049 USPATFULL
TITLE: Fiber-reinforced, porous, biodegradable implant device
INVENTOR(S): Slivka, Michael, San Antonio, TX, United States
Niederauer, Gabriele G., San Antonio, TX, United States
Kieswetter, Kristine, San Antonio, TX, United States
Leatherbury, Neil C., San Antonio, TX, United States
PATENT ASSIGNEE(S): OsteoBiologics, Inc., San Antonio, TX, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6511511	B1	20030128
APPLICATION INFO.:	US 1999-426686		19991025 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 1998-US11007, filed on 29 May 1998		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-48320P	19970530 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Isabella, David J	
LEGAL REPRESENTATIVE:	Greenlee, Winner and Sullivan, P.C.	
NUMBER OF CLAIMS:	11	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 6 Drawing Page(s)	
LINE COUNT:	786	

L3 ANSWER 14 OF 17 USPATFULL on STN

TI Multilayer skin or dermal equivalent having a layer containing mesenchymal stem cells

AB A multilayer skin equivalent is formed having a scaffold layer containing dermis-forming cells, and a keratinocyte layer. The dermis-forming cells and keratinocytes are preferably autologous, and the dermis-forming cells can be human mesenchymal stem cells (MSCs), dermal fibroblasts (e.g., papillary or reticular dermal fibroblasts) or mixtures thereof. The scaffold is preferably type I collagen alone, or types I and II collagen in combination. Also formed is a multilayer skin equivalent having a scaffold layer containing a layer of extracellular matrix component containing papillary dermal fibroblasts in laminar relationship with a layer of extracellular matrix component containing reticular dermal fibroblasts, and a keratinocyte layer. A multilayer dermal equivalent is provided having a layer of extracellular matrix component containing papillary dermis-forming cells and a layer of extracellular matrix component containing reticular dermis-forming cells. In another embodiment, the dermal equivalent has a layer containing MSCs and a layer selected from a layer of extracellular matrix component containing papillary dermis-forming cells and a layer of extracellular matrix component containing reticular dermis-forming cells, and optionally a keratinocyte layer. In the skin and dermal equivalents, at least one layer may contain an agent that promotes adhesion or angiogenesis. Also present may be a bioactive agent that enhances proliferation, commitment or differentiation of mesenchymal stem cells into dermal components, either in vitro or in vivo. An

injectable composition is also provided containing dermis-forming cells and an extracellular matrix component in a pharmaceutically acceptable injectable carrier.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:340143 USPATFULL
TITLE: Multilayer skin or dermal equivalent having a layer containing mesenchymal stem cells
INVENTOR(S): Sorrell, J. Michael, Cleveland Heights, OH, United States
Caplan, Arnold I., Cleveland Heights, OH, United States
PATENT ASSIGNEE(S): Case Western Reserve University, Cleveland, OH, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6497875	B1	20021224
	WO 9741208		19971106
APPLICATION INFO.:	US 1998-171445		19981026 (9)
	WO 1997-US6760		19970424
			19981026 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-16317P	19960426 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Naff, David M.	
LEGAL REPRESENTATIVE:	Olstein, Elliot M., Lillie, Raymond J.	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 5 Drawing Page(s)	
LINE COUNT:	1946	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 15 OF 17 USPATFULL on STN

TI Device for regeneration of articular cartilage and other tissue
AB An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between said regions, of this embodiment. In one embodiment, the polyelectrolytic complex transforms to hydrogel, following the implant procedure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:55324 USPATFULL
TITLE: Device for regeneration of articular cartilage and other tissue
INVENTOR(S): Brekke, John H., Duluth, MN, UNITED STATES
Goldman, Scott M., Paoli, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002032488	A1	20020314
APPLICATION INFO.:	US 2001-909027	A1	20010719 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-206604, filed on 7 Dec 1998, GRANTED, Pat. No. US 6264701 Division of Ser. No. US 1994-242557, filed on 13 May 1994, GRANTED, Pat. No. US 5981825		

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Alan D. Kamrath, Kensey Nash Corporation, 55 E. Uwchlan Avenue, Exton, PA, 19341
NUMBER OF CLAIMS: 56
EXEMPLARY CLAIM: 1
LINE COUNT: 1349
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 16 OF 17 USPATFULL on STN
TI Manufacture of autogenous replacement body parts
AB Disclosed are matrix materials, methods, and devices for manufacture in vivo of autogenous replacement body parts comprising plural distinct tissues. In one embodiment, the replacement body part is a skeletal joint and the new plural distinct tissues include bone and articular cartilage.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2000:113511 USPATFULL
TITLE: Manufacture of autogenous replacement body parts
INVENTOR(S): Khouri, Roger K., St. Louis, MI, United States
Sampath, Kuber T., Medway, MA, United States
Rueger, David C., Hopkinton, MA, United States
PATENT ASSIGNEE(S): Styker Corporation, Kalamazoo, MI, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6110482		20000829
APPLICATION INFO.:	US 1995-459129		19950602 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-253398, filed on 3 Jun 1994, now patented, Pat. No. US 5906827		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Mullis, Jeffrey C.		
LEGAL REPRESENTATIVE:	Testa, Hurwitz & Thibeault, LLP		
NUMBER OF CLAIMS:	30		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	13 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	1672		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 17 OF 17 USPATFULL on STN
TI Manufacture of autogenous replacement body parts
AB Disclosed are matrix materials, methods, and devices for manufacture in vivo of autogenous replacement body parts comprising plural distinct tissues. In one embodiment, the replacement body part is a skeletal joint and the new plural distinct tissues include bone and articular cartilage.

ACCESSION NUMBER: 2000:21237 USPATFULL
TITLE: Manufacture of autogenous replacement body parts
INVENTOR(S): Khouri, Roger K., St. Louis, MO, United States
Sampath, Kuber T., Medway, MA, United States
Rueger, David C., Hopkinton, MA, United States
PATENT ASSIGNEE(S): Stryker Corporation, Hopkinton, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6027743		20000222
APPLICATION INFO.:	US 1995-458811		19950602 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-253398, filed		

on 3 Jun 1994, now patented, Pat. No. US 5906827
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Mullis, Jeffrey C.
LEGAL REPRESENTATIVE: Testa, Hurwitz & Thibault, LLP
NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 13 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 1649

=> e zhang, r/au

E1	12	ZHANG ZY/AU
E2	6	ZHANG ZZ/AU
E3	0 -->	ZHANG, R/AU
E4	1	ZHANGA C/AU
E5	1	ZHANGA CHUAN HAI/AU
E6	1	ZHANGA G S/AU
E7	1	ZHANGA LIJUN/AU
E8	1	ZHANGA LING/AU
E9	1	ZHANGA R/AU
E10	1	ZHANGA X Z/AU
E11	1	ZHANGA Z G/AU
E12	1	ZHANGA ZESHENG/AU

=> e morris, e/au

E1	2	MORRIS ZACHARY S/AU
E2	3	MORRIS ZOE/AU
E3	0 -->	MORRIS, E/AU
E4	1	MORRISA H/AU
E5	1	MORRISBROW R A/AU
E6	1	MORRISE JESARD/AU
E7	1	MORRISE M/AU
E8	1	MORRISE M C/AU
E9	1	MORRISE M C P/AU
E10	1	MORRISE MATTHEW C/AU
E11	1	MORRISE MATTHEW C P/AU
E12	2	MORRISEAU B D/AU